

ABSTRACT

A video signal processing system is utilized for encoding an encoding bit stream according to characteristics of a decoding bit stream. The encoding and decoding bit streams include a plurality of encoding schemes. The video signal encoding and decoding method includes: checking the encoding scheme of the decoding bit stream to decide an encoding scheme for encoding the encoding bit stream; and encoding the encoding bit stream using one of the plurality of encoding schemes except a third encoding scheme when the encoding scheme of the decoding bit stream is the third encoding scheme, the memory bandwidth needed for the third encoding scheme being greater than the memory bandwidth needed for any other encoding scheme out of the plurality of encoding schemes.